

**To:** Richardson, Lisa[lrichard@blm.gov]; Peter Butler[butlerpeter2@gmail.com]  
**From:** Wall, Dan  
**Sent:** Tue 5/12/2015 6:44:53 PM  
**Subject:** RE: FW: Sampling above Howardsville

I have the senator mapped on the hillside next to the Sunnyside mill in Eureka. Does the adit even reach the Animas?

**From:** Richardson, Lisa [mailto:lrichard@blm.gov]  
**Sent:** Friday, May 08, 2015 7:41 AM  
**To:** Wall, Dan; Peter Butler  
**Subject:** Re: FW: Sampling above Howardsville

Good morning. I think Peter has a good point with Senator and Ransom. And I don't know the Senator's ownership either. In fact, I'm not exactly sure which adit is the Senator. Peter, could send a google earth pic of the Senator?

Thank you. Have been meaning to ask that for ages and keep forgetting.

Lisa

On Fri, May 8, 2015 at 7:11 AM, Wall, Dan <[wall.dan@epa.gov](mailto:wall.dan@epa.gov)> wrote:

FYI

**From:** Peter Butler [mailto:[butlerpeter2@gmail.com](mailto:butlerpeter2@gmail.com)]  
**Sent:** Thursday, May 07, 2015 6:00 PM  
**To:** Wall, Dan  
**Subject:** Sampling above Howardsville

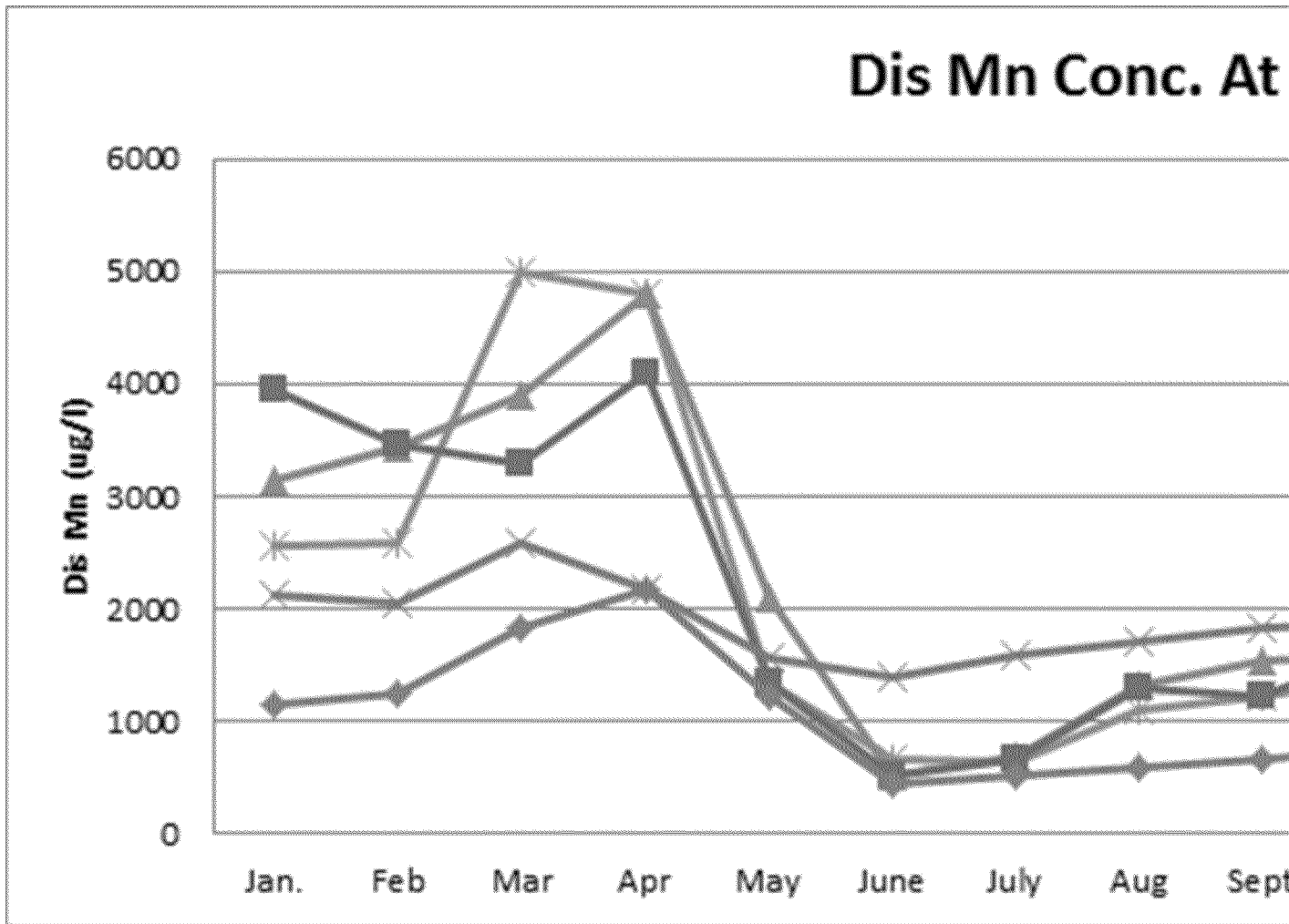
Dan – I hope the graph below comes thru well. If not, I can send it in an Excel file.

The actual standard is equal to table value standards except in March and April where higher than TVS numbers for aquatic life apply. As you can see, before 1996, manganese levels were not really of concern. Since then, they have climbed dramatically, and we don't know why. I'm not sure manganese was identified as a metal of concern in the BERA, but it probably should be.

The bulkhead creating the Sunnyside mine pool was installed in mid-1996, so possibly the hydrology has changed, driving manganese in groundwater towards the Animas watershed. The Sunnyside mine is loaded with manganese.

Or when Sunnyside Gold disturbed mine tailings from the Sunnyside mine during remediation projects, maybe that triggered a spike, although by now I would expect the spike to be dropping. Sunnyside removed about 112,000 cubic yards in Eureka in 1996-97. Then removed tailings by the Animas near the power plant in 2003.

The one mine we identified as a high manganese loader is the Senator. That's why we'd like to see it sampled for manganese loading to see if it's changed since the mid-1990's. In addition, Sunnyside put a bulkhead in the Ransom adit which is nearby in 1997. Don't know if they are hydrologically connected. We're not sure if the Senator is on BLM land or private (like to know that too).



Peter Butler

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